

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001331**Date Inspected:** 13-Jun-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1200**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2359**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 4AE/4BE, South Tower Lift #1, Miscell**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**OBG 4AE/4BE**

Interior Interzinc 22 damaged areas were abrasive blasted to base metal to an SSPC SP-10 condition and Interzinc 22 re-applied. Profile amplitude was 74-83um. Repairs incomplete.

**OBG 5CW**

Dry film thickness verification of interior surfaces coated with Interzinc 22 was performed prior to removing from the paint shop.

**Miscellaneous Metal**

Base metal surfaces of 500+- splice plates, shim plates, cable brackets, bikeway brackets and suspender brackets, and tube box diagonal beams were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

**Miscellaneous Metal**

Base metal surfaces of 350+- splice plates, shim plates, cover plates and cable brackets were de-greased and water washed in preparation of abrasive blasting operations.

**South Tower Lift #1**

Interzinc 22 coated interior surfaces from 0M-18M diaphragms were checked for dry film thickness, some localized areas were observed to have excessive film build in excess of 240um-400um. Repairs required.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC inspectors and Caltrans QA Lumley.

International Protective Coatings technical service representatives Peng ZiLi and Alpha Chen were available for

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## SOURCE INSPECTION REPORT

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consultation and inspection.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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